NOVEL GLYPHOSATE N-ACETYL TRANSFERASE (GAT) GENES Linda A. Castle, et al. Serial No.: 10/004,357 Attorney Docket No.: 02-107010US

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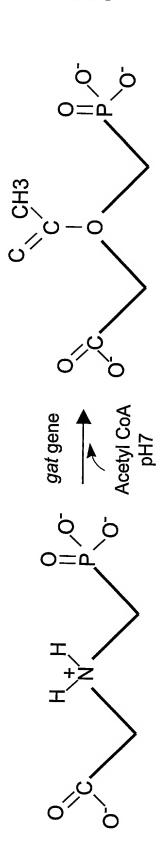


Fig.

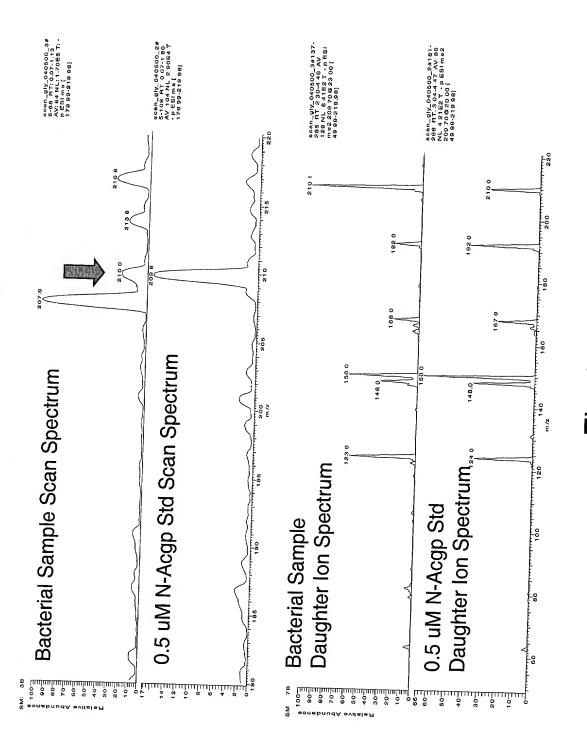


Fig. 2

	eotide	identiity	Nucleotide identity between sequence pairs	n sedne	ence pa	<u>Ir</u> s
	0	US3	S1401	NHA-2	NH5-2	yitl
	* *	92.0	93.2	94.8	92.8	62.0
DS3		* * *	95.5	8.66	95.0	61.8
ST401			* * *	95.2	99.5	62.4
NHA-2				* * *	94.8	61.5
NH5-2					* *	62.9
						* *

 $\label{eq:hind} Hind III (671)$ | EcoR I (723) RSB target | NdeI (184) Aval (291) *Xbal* (165) lac Z pep GAT camR Ncol (1377) RSB lacZ Pstl (1527) Aval(2)pMAXY2120 3580 bp -35 ApaLI (2783)-

Fig. 4

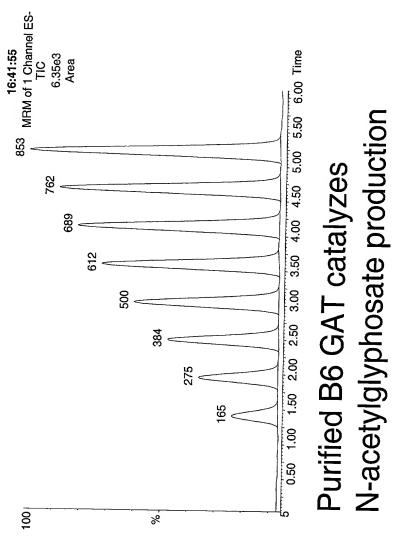
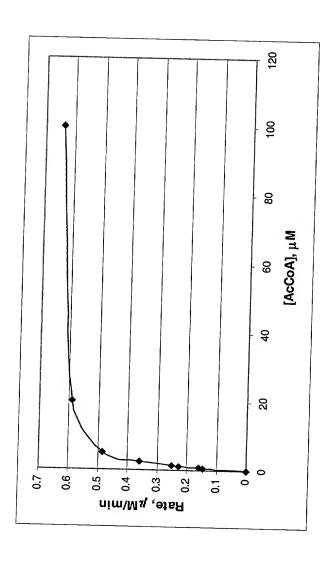
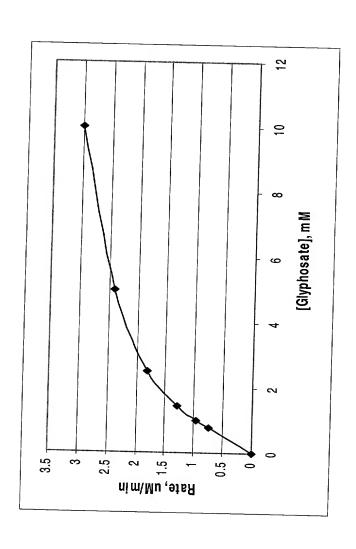


Fig. 5



B6 GAT K_M for Acetyl CoA = 2 μ M

Fig. 6



B6 GAT K_M for glyphosate = 2.9 mM

Fig. 7

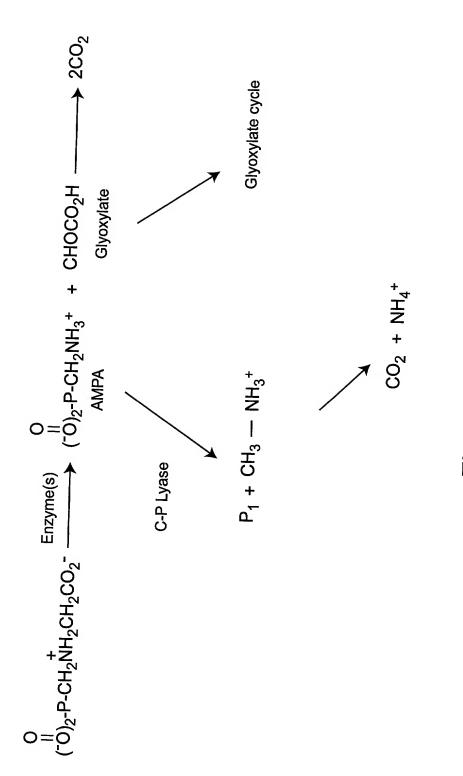


Fig. 8

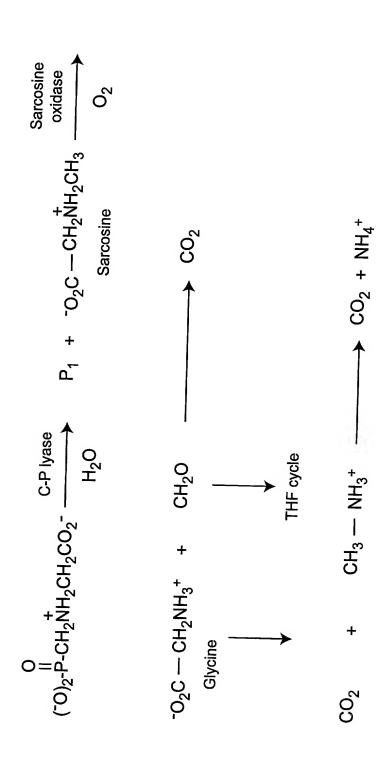


Fig. 9

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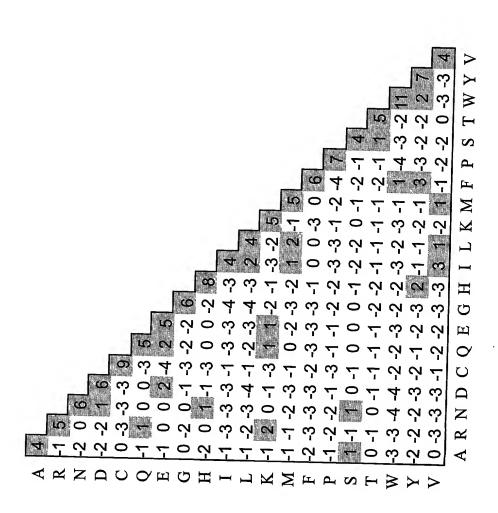


Fig. 10

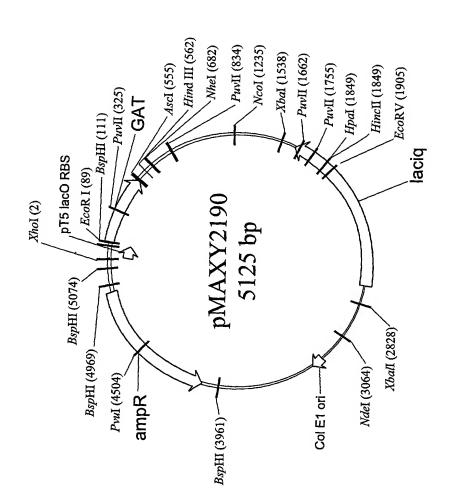


Fig. 11

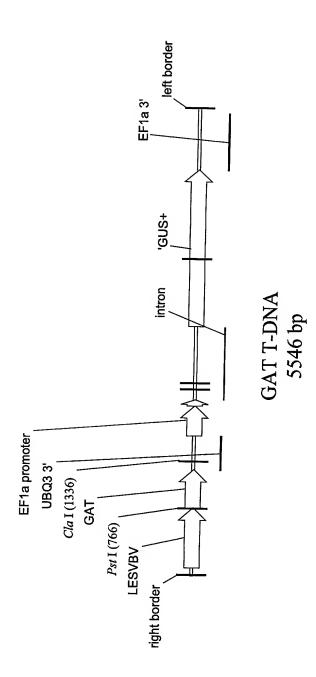


Fig. 12

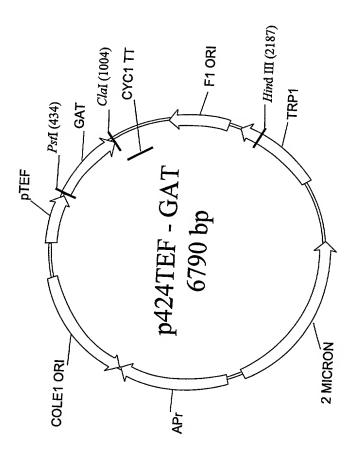


Fig. 13